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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/919,298	07/31/2001	Joseph Edward Zahner	16850-8184	2484		
32809 7	590 10/03/2003		EXAMINER			
	NUCLEUS REMODELING, INC. 3646 DOVER PLACE			WOITACH, JOSEPH T		
ST. LOUIS, M	IO 63116		ART UNIT	PAPER NUMBER		
			1632			

DATE MAILED: 10/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Advisory Action	09/919,298	ZAHNER ET AL.			
1.u., 7.lou.o.	Examiner	Art Unit			
	Joseph T. Woltach	1632			
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence address -	-		
THE REPLY FILED 04 September 2003 FAILS TO PLACE Therefore, further action by the applicant is required to avignal rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this application at the contract of the con	ation. A proper reply to a n places the application ir	1		
PERIOD FOR RE	PLY [check either a) or b)]				
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The ee have been filed is the date for purposes of determining the period of ee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the 2) as set forth in (b) above, if checked. Any reply received by the Office imely filed, may reduce any earned patent term adjustment. See 37 Circles	Advisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF The date on which the petition under 37 CF of extension and the corresponding amount the shortened statutory period for reply the later than three months after the mail	g date of the final rejection. HE FINAL REJECTION. See M R 1.136(a) and the appropriate unt of the fee. The appropriate originally set in the final Office a	extension extension action; or		
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF	R 1.191(d)), to avoid dismissal o				
2. The proposed amendment(s) will not be entered be					
(a) they raise new issues that would require further	•	see NOTE below);			
(b) they raise the issue of new matter (see Note b	·				
(c) they are not deemed to place the application in issues for appeal; and/or	n better form for appeal by mate	rially reducing or simplifyi	ng the		
(d) they present additional claims without canceling a corresponding number of finally rejected claims.					
NOTE: The term "Oct-4" is a new embodiment re	not previously searched nor conside	ered.			
3. Applicant's reply has overcome the following reject	ion(s):				
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	eparate, timely filed amen	dment		
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: See		dered but does NOT plac	e the		
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY t	o issues which were newl	y		
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we			1		
The status of the claim(s) is (or will be) as follows:					
Claim(s) allowed:					
Claim(s) objected to:					
Claim(s) rejected: <u>1,3-5,8,21 and 22</u> .					
Claim(s) withdrawn from consideration: <u>23-33</u> .					
8. The proposed drawing correction filed on is	a)☐ approved or b)☐ disapp	roved by the Examiner.			
9. Note the attached Information Disclosure Statemer					
0. Other:	SUPE	DEBORAH J. REYNOLDS RVISORY PATENT EXAMINER MINOLOGY CENTER 1600	05		

Continuation of 5. does NOT place the application in condition for allowance because: In addition it is noted that the editing marks for the addition and recitation of 'Oct-4 in claim 1 was not made in applicants' amendment. While the claim appears to be clear and complete, claim amendments filed uner 37 CFR 1.116 should clearly indicate all changes made to the claims. Not providing amendments in the required format raises new issues of formal matters. With respect to Applicants' arguments and declaration filed under 37 CFR 1.132. they have been fully considered but not found persuasive. With respect to Applicants' arguments Examiner would agree in general that the treatment with one or each of the three types of reagents would affect nuclear remodelling resulting in changes in gene expression, however in question is what the resulting 'reprogrammed' cell represents. The specific results in the disclosure and the declaration provid evidence that gene expression changes and that multiple genes representing multiple cell type lineages are expressed after treatment bu there is an insufficient correlation with the change in gene expression to conclude that the resulting cell is a pluripotent stem cell. For example, transformed cells are known in the art to regain expression of telomerase and some of the teratoma tumor type cells have been demonstrated to express Oct-4. Similarly, there are transformed cell lines which are known to express SSEA-1. Additionally, the results set forth in experiments to demonstrate differentiation by adding retinoic acid to the treated cells provides evidence the cells can be furthe affected, however whether the changes reflect differentiation of a stem cell have not been firmly established. Further, it is unclear whether the proposed amendment for the capability of the resulting cell to express a 'neurofilamnent, cardiac actin and alpha antitrypsin' fairly represents a pluripotent stem cell. Examiner does not contest the specific results which have been reduced to practice in the instan disclosure and the declaration filed with the after final amendment, rather at issue is whether these results repesent the breadth of the claims for making pluripotent stem cells from any organism and if the specific results provide a nexus for other cell types or the use of other agents in the re-programming process.